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# 1 [Testing: a roadmap](#)

 Mary Jean Harrold  
May 2000 **Proceedings of the Conference on The Future of Software Engineering**

**Publisher:** ACM Press

Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 2 [Regression testing in an industrial environment](#)

 Akira K. Onoma, Wei-Tek Tsai, Mustafa Poonawala, Hiroshi Suganuma  
May 1998 **Communications of the ACM**, Volume 41 Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(167.36 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

# 3 [On test suite composition and cost-effective regression testing](#)

 Gregg Rothermel, Sebastian Elbaum, Alexey G. Malishevsky, Praveen Kallakuri, Xuemei Qiu  
July 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 13 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Regression testing is an expensive testing process used to revalidate software as it evolves. Various methodologic testing processes have been explored, but the cost-effectiveness of these methodologies has been shown to vary across regression test suites. One such characteristic involves the way in which test inputs are composed into test cases. This article reports the results of controlled experiments examining the effects of test suite composition on the cost-effectiveness of regression testing.

**Keywords:** Empirical studies, regression testing, test suite composition

# 4 [Technical papers: software testing: The impact of test suite granularity on the cost-effectiveness of regression testing](#)

 Gregg Rothermel, Sebastian Elbaum, Alexey Malishevsky, Praveen Kallakuri, Brian Davia  
May 2002 **Proceedings of the 24th International Conference on Software Engineering**

**Publisher:** ACM Press

Full text available:  [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Regression testing is an expensive testing process used to validate software following modifications. The cost-effectiveness of regression testing techniques varies with characteristics of test suites. One such characteristic, test suite granularity, involves the way in which test inputs are grouped into test cases within a test suite. Various cost-benefits tradeoffs have been attributed to test suite granularity, but almost no research has formally examined these tradeoffs. To address this issue, we conducted a series of experiments to evaluate the cost-effectiveness of regression testing techniques that vary in test suite granularity. The results of these experiments show that test suite granularity has a significant impact on the cost-effectiveness of regression testing. Specifically, we found that test suites with higher granularity (i.e., more test cases) resulted in higher cost-effectiveness. This finding has important implications for the design of regression test suites, as it suggests that test suite granularity should be taken into account when designing regression test suites.

# 5 [Incorporating varying test costs and fault severities into test case prioritization](#)

Sebastian Elbaum, Alexey Malishevsky, Gregg Rothermel  
July 2001 **Proceedings of the 23rd International Conference on Software Engineering**